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15th, 1963/64.



FIFTEENTH ANNUAL REPORT



ON ACTIVITIES UNDER THE MARITIME MARSHLAND REHABILITATION ACT FOR THE FISCAL YEAR ENDED MARCH 31, 1964

MARITIME MARSHLAND REHABILITATION ADMINISTRATION


DEPARTMENT OF FORESTRY, CANADA

Government
Publications

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Fifteenth Annual Report of Activities Under the Maritime Marshland Rehabilitation Act, 1963-64

INTRODUCTION

The Maritime marshlands cover an estimated 100,000 acres principally around the Bay of Fundy.

Although the majority of farms consists largely of upland holdings, and farms consisting entirely of fertile marshlands are in the minority, the marshlands have long been considered important to the economy of the region. Some areas were protected for agricultural use over 300 years ago.

Federal assistance for the preservation and extension of this resource was arranged after a combination of factors had seriously handicapped the owners.

The Maritime Marshland Rehabilitation Act was passed in 1948. Under the Act, federal responsibility is to provide the main protective works, and that of the provinces is to assure proper land utilization.

The Act was administered by the Canada Department of Agriculture until early 1964 when this responsibility was transferred to the Department of Forestry of Canada. The Maritime Marshland Rehabilitation Administration is the Departmental Agency established for the program.

ADMINISTRATION AND ORGANIZATION

HEADQUARTERS

The headquarters of the Maritime Marshland Rehabilitation Administration was established in Amherst, Nova Scotia, in the summer of 1949, under the control of a Director responsible to the Deputy Minister of the administering Department.

ENGINEERING BRANCH

The Engineering Branch is divided into three categories:

- (a) Surveys, Design and Drafting
- (b) Construction Services
- (c) Workshop and Equipment.

Construction divisions operate from Amherst and Windsor, Nova Scotia, and temporary additional offices are established in the field, from time to time, as required.

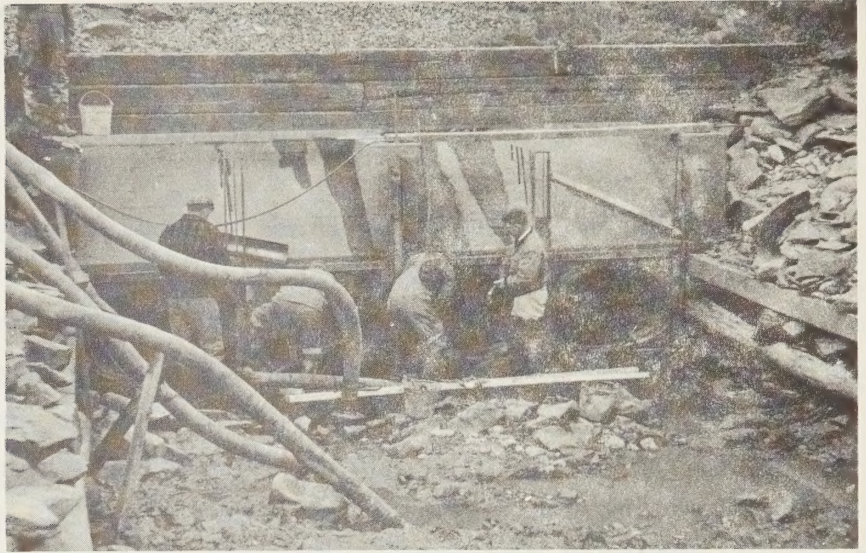


Figure 1 - Cole's Island Marsh, Westmorland County, N. B. Repairs in progress on a large 4-barrel pipe aboiteau that drains a major portion of the marsh. This structure is also a C.N.R. main line crossing.
(Photo No. 44-120)

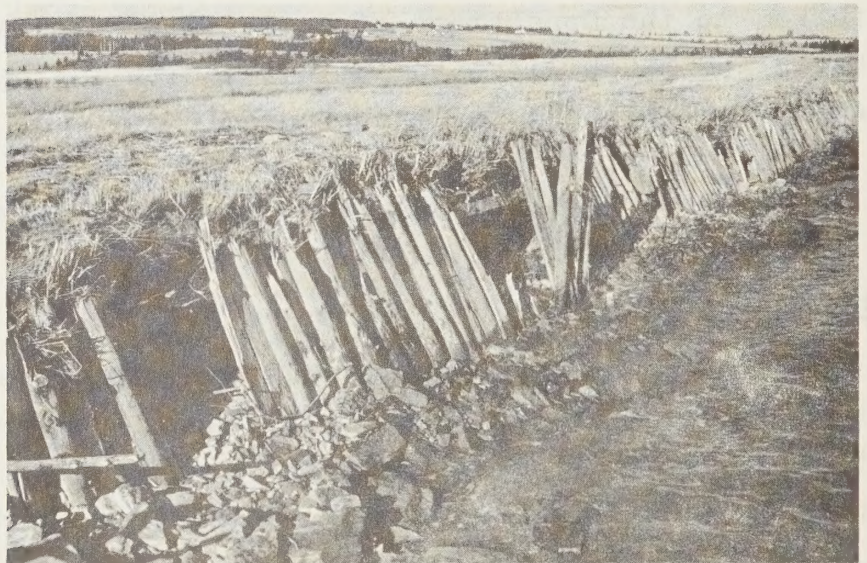


Figure 2 - Westcock Marsh, Westmorland County, N. B. Wave Action combined with high tides has destroyed a section of slab facing installed in 1951. This facing will be replaced with heavy rock.
(Photo No. 5-70)

The main office in Amherst also includes a complete Administration and Accounting Branch.

The Maritime Marshland Rehabilitation Advisory Committee was established early in the program and functioned as required under Section 8 of the Act. The act states "No work shall be undertaken in any Province ... unless (a) the work has been recommended by an Advisory Committee ...".

SUMMARY OF PROGRESS TO DATE

PROJECTS AND ACREAGES PROTECTED

All projects which have been approved by the Minister for Canada and which have not been incorporated into larger projects are designated as active. The number of active projects in each province on March 31, 1964, and the acreages protected are as follows:

Province	No. of Active Projects	Acreage Protected
Nova Scotia	84	44,054
New Brunswick	38	36,936
Prince Edward Island	1	275
TOTAL	123	81,265

The active projects in each province and the acreages protected are listed in Appendix I.

CONSTRUCTION OF WORKS

The marshlands are protected from the tides by dykes. At major stream crossings where fresh water runoff is to be discharged, these include structures known locally as aboiteaux. River bank control and foreshore protective works are installed where required.

The protecting works include:

250 miles of dyke, 70 miles having rock or timber facing;

433 aboiteaux;

3 major tidal dams;

17 miles of river bank control installations.

A graph showing the annual progress from 1949 to 1964 appears in Appendix IV.

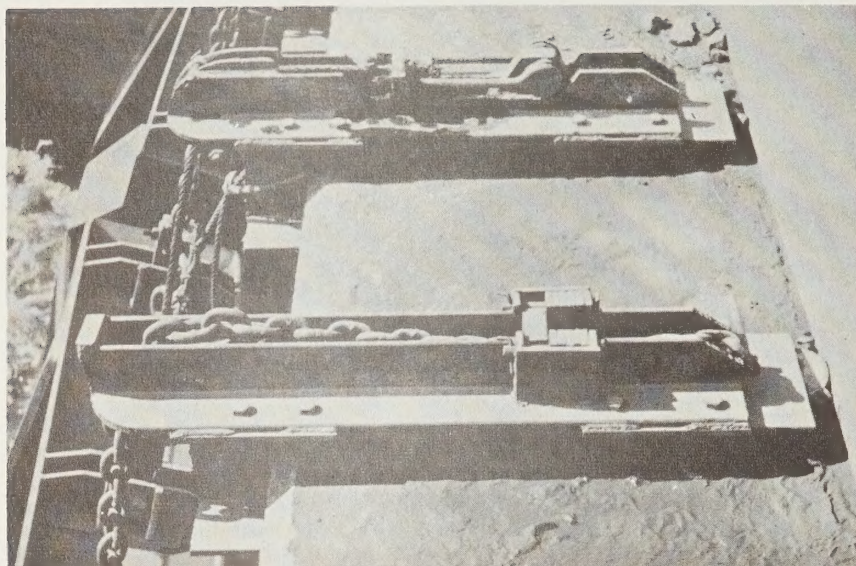


Figure 3 - Nappan River Dam, Cumberland County, N.S.
Two types of hinging mechanisms that were field tested for use on this structure, utilizing chain and cable. Both hinges are adjustable for chain or cable length. The gate they support weighs 6 tons.
(Photo No. 09-647)

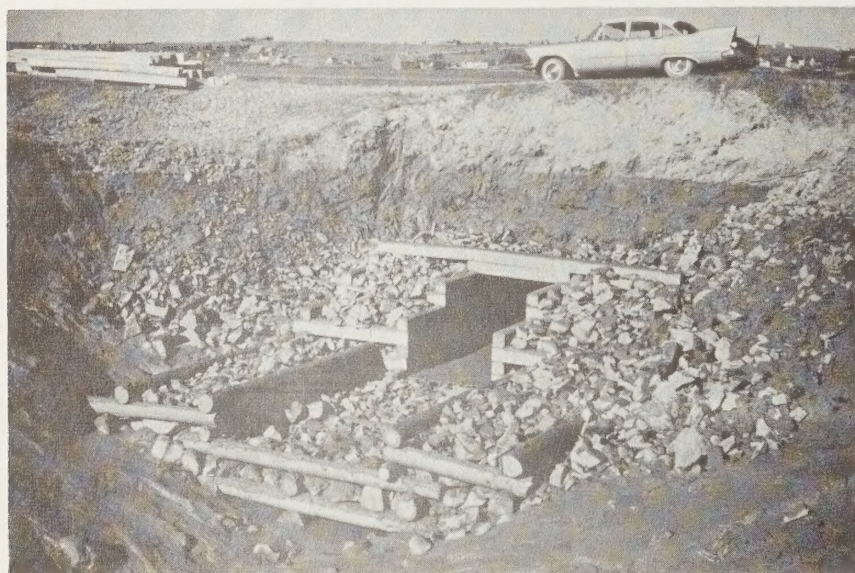


Figure 4 - Memramcook West Marsh, Westmorland County, N.B. Typical small aboiteau with the rock crib outlet which was adopted to replace the earlier standard of plank wingwalls and spillway.
(Photo No. 21-211)

The construction trend, directed by economic feasibility studies, has been toward protecting areas in groups, using a single large aboiteau, or dam, instead of miles of dyke and large numbers of small aboiteaux. This has already been done in the cases of the Shepody, Tantramar and Annapolis dams. This trend will in time render obsolete some of the protective works constructed during the current program.

THE CONSTRUCTION PROGRAM FOR THE YEAR INVOLVED:

Standard Projects

Works previously constructed were improved and extended on projects in Nova Scotia and New Brunswick.

It has been found advantageous to quarry, haul and place required protective rock for most projects during the winter months. This program was successfully continued last winter on the following projects:

- | | |
|------|--|
| N.S. | 2 Windsor Forks, Hants County |
| | 8 Grand Pre, Kings County |
| | 17 Falmouth Village, Hants County |
| | 20 Advocate, Cumberland County |
| | 56 Wellington, Kings County |
| | 57 New Minas, Kings County |
| | 93 Greenhill, Hants County |
| | 97 Highland Village, Colchester County |
| | 100 Wentworth, Hants County |
| | 113 Southside, Colchester County |
| N.B. | 21 Memramcook West, Westmorland County |
| | 51 Shepody River Dam, Albert County |

Details of expenditures to date on all projects are recorded in Appendix II.

Special Projects

The existence of several multipurpose structures, serving as aboiteaux and highway or railway culverts, prompted the careful investigation of possible combined undertakings early in the rehabilitation program. Such investigations have been continued. Among the larger projects being considered are the Avon River Causeway, Hants County, Nova Scotia, in conjunction with the Nova Scotia Department of Highways and the Dominion Atlantic Railway; the Salmon River Causeway, Colchester County, Nova Scotia, in conjunction with the Nova Scotia Department of Highways and the Town of Truro; and the

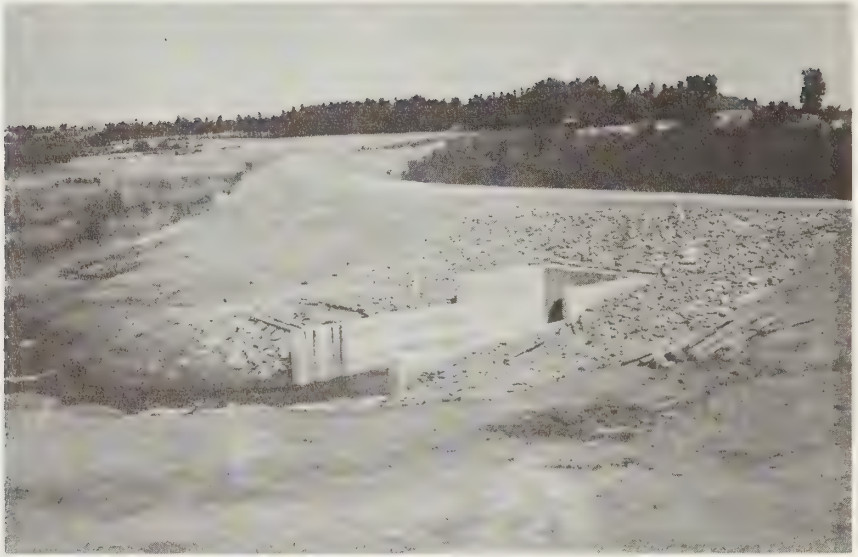


Figure 5 - Arseneault's Dam, Prince County, P.E.I.
A typical multi-purpose low dam constructed under the ARDA program with engineering assistance provided by M.M.R.A. The splash boards are not yet installed.
(Photo 2021-20)



Figure 6 - Stewiacke River, Colchester County, N.S.
The gravel bank on the left was bulldozed up from the river bottom to provide protection from flooding and erosion for valuable agricultural land in back. This work was done under the ARDA program by M.M.R.A.
(Photo 3024-10)

Petitcodiac River Causeway, Westmorland County, New Brunswick, in conjunction with the New Brunswick Department of Public Works and the City of Moncton.

Outstanding Projects

Although construction has been initiated and almost completed on all projects approved, there are several projects which have been favourably considered by the Advisory Committee and on which for various reasons the provinces concerned have postponed requesting action. These are as follows:

Nova Scotia Region

N.S. 114, Great Village Marsh, Colchester County

New Brunswick Region

N.B. 37, Sackville-Ram Pasture, Westmorland County, (an extension of the presently completed Sackville project).

Special Investigations

The Administration has had complete design and construction responsibilities on all joint projects and has frequently advised provincial government agencies, municipalities, private groups and individuals on construction matters related to administration experience.

In June of 1961 the Agricultural Rehabilitation and Development Act was passed to provide a means of developing national, provincial and local programs to diversify and develop agriculture and local industry, to develop natural resources in rural areas, and to help rural people toward greater opportunities and satisfactions. During 1963, the Maritime Marshland Rehabilitation Administration was designated as the operating arm of ARDA in the Atlantic Provinces.

Studies and investigations in various projects, principally under soil and Water Conservation, were requested by the ARDA Directorate during the current year, in the three Maritime Provinces.

Preliminary surveys were continued on the Maugerville-Sheffield area along the Saint John River in New Brunswick, and started on the Kennebecasis River, also in New Brunswick.

In Nova Scotia, the largest undertaking was a study of the Musquodoboit River, with the aim of alleviating fresh water flooding. A preliminary survey was completed during the fiscal year.

A number of multipurpose earth dams were investigated on

Prince Edward Island, and engineering assistance provided for the design and construction.

Several other ARDA projects were under investigation during the year, and surveys will continue in the coming year.



Figure 7 - Maugerville-Sheffield, Queens and Sunbury Counties, N.B.

An extensive survey of the low lying area, a portion of which is pictured here, along the banks of the Saint John River, was carried out by M.M.R.A. The land suffers flooding during high river run-off periods.

(Photo 1 N.B.-25)



Figure 8 - Aylesford Bog, Kings County, N.S.

An aerial view of a portion of the bog which is being farmed after a drainage survey proved the feasibility of turning this area into productive agricultural land. The survey was done by M.M.R.A.

(Photo 2 N.S.-8)

APPENDIX 1

MARITIME MARSHLAND REHABILITATION PROJECTS

Active Projects

Note: Acreages are based on information available on March 31, 1964, and include dyke rights-of-way, roads and creeks.

NOVA SCOTIA

Project No.	Name of Marsh	County	Acreage Protected Marsh
N.S. 2	Windsor Forks	Hants	465
N.S. 3	Falmouth Great Dyke	Hants	975
N.S. 4	Queen Anne	Annapolis	477
N.S. 5	Dugau	Annapolis	172
N.S. 6	Saulnierville	Digby	73
N.S. 8	Grand Pre (inc. Wickwire)	Kings	3013
N.S. 11	Truro Dykeland Park	Colchester	878
N.S. 12	Victoria Diamond Jubilee	Colchester	527
N.S. 13	Dentiballis	Annapolis	348
N.S. 14	Elderkin	Hants	203
N.S. 15	Isgonish	Colchester	491
N.S. 16	Castle Frederick	Hants	145
N.S. 17	Falmouth Village	Hants	97
N.S. 18	Ryerson	Annapolis	86
N.S. 20	Advocate	Cumberland	489
N.S. 23	Masstown	Colchester	986
N.S. 24	Noel Shore	Hants	309
N.S. 27	Newport Town	Hants	338
N.S. 30	Allan River	Annapolis	122
N.S. 38	St. Croix	Hants	248
N.S. 39	Round	Colchester	86
N.S. 40	Fort Belcher	Colchester	181
N.S. 41	Habitant	Kings	677
N.S. 42	Amherst Point	Cumberland	2252
N.S. 44	Converse	Cumberland	838
N.S. 45	Barronsfield	Cumberland	237
N.S. 46	River Hebert	Cumberland	1052
N.S. 47	Selmah	Hants	188
N.S. 48	Centre Burlington	Hants	158
N.S. 49	Scotch Village	Hants	89
N.S. 50	Herbert River	Hants	74
N.S. 52	St. Mary's Bay	Digby	692
N.S. 53	John Lusby	Cumberland	821
N.S. 54	Minudie	Cumberland	2711
N.S. 55	Seaman	Cumberland	441
N.S. 56	Wellington	Kings	3105
N.S. 57	New Minas	Kings	304
N.S. 59	Brown Salt Pond	Yarmouth	294
N.S. 61	Kennetcook	Hants	169
N.S. 63	Maccan	Cumberland	200
N.S. 64	Glenholme	Colchester	292
N.S. 65	Bishop Beckwith	Kings	604
N.S. 66	Flemming	Colchester	277
N.S. 67	Onslow North River	Colchester	496
N.S. 68	Tregothic	Hants	576
N.S. 69	Martock	Hants	1478
N.S. 70	Chegoggin	Yarmouth	425

NOVA SCOTIA (Continued)

Project No.	Name of Marsh	County	Acreage Protected Marsh
N.S. 71	Goose Bay	Yarmouth	269
N.S. 72	Horton	Kings	309
N.S. 75	Armstrong	Hants	53
N.S. 76	Farnham Dyke	Kings	192
N.S. 77	Princeport	Colchester	49
N.S. 78	Athol	Cumberland	131
N.S. 79	Chambers	Hants	61
N.S. 80	Starr's Point	Kings	303
N.S. 81	Lower Truro	Colchester	399
N.S. 82	Kentville	Kings	71
N.S. 85	Mantua Poplar Grove	Hants	362
N.S. 86	Central Onslow	Colchester	291
N.S. 87	Chignecto	Cumberland	544
N.S. 88	Burlington	Hants	106
N.S. 90	Old Barns	Colchester	181
N.S. 91	Belcher Street	Kings	346
N.S. 92	Avonport	Kings	255
N.S. 93	Greenhill	Hants	53
N.S. 95	Fort Lawrence-Amherst	Cumberland	3400
N.S. 97	Highland Village	Colchester	212
N.S. 98	Stewiacke	Colchester	146
N.S. 100	Wentworth	Hants	150
N.S. 101	Pereaux	Kings	113
N.S. 103	Annapolis River Dam	Annapolis	4300
N.S. 104	Sunny Slope	Hants	17
N.S. 105	Belmont	Hants	72
N.S. 106	Fort Ellis	Colchester	203
N.S. 108	Argyle	Yarmouth	45
N.S. 109	Nappan River Dam	Cumberland	1074
N.S. 111	Burntcoat	Hants	37
N.S. 112	Rhynds Creek	Hants	187
N.S. 113	Southside	Colchester	134
N.S. 115	Nappan-Maccan	Cumberland	388
N.S. 116	Shubenacadie	Hants	111
N.S. 117	Tufts	Colchester	87
N.S. 119	Upper Maccan	Cumberland	169
N.S. 121	Green's Creek	Colchester	75
TOTAL			44,054

NEW BRUNSWICK

Project No.	Name of Marsh	County	Acreage Protected Marsh
N.B. 4	Allison	Westmorland	197
N.B. 5	Westcock	Westmorland	800
N.B. 6	Taylor Village	Westmorland	444
N.B. 8	Coyle Landry	Westmorland	305
N.B. 11	Belliveau Village	Westmorland	191
N.B. 12	Pre d'en Haut	Westmorland	113
N.B. 13	Dorchester	Westmorland	1758
N.B. 14	Lower Coverdale	Albert	149
N.B. 15	Middle Coverdale	Albert	31
N.B. 16	Dixon Island	Westmorland	330
N.B. 17	New Horton	Albert	799
N.B. 18	Fox Creek	Westmorland	96
N.B. 19	Beaumont	Westmorland	207
N.B. 20	Gautreau Village	Westmorland	209

NEW BRUNSWICK (Continued)

Project No.	Name of Marsh	County	Acreage Protected Marsh
N.B. 21	Memramcook West	Westmorland	1105
N.B. 24	Aulac	Westmorland	2050
N.B. 25	Dock	Westmorland	42
N.B. 26	Dover	Westmorland	43
N.B. 27	College Bridge	Westmorland	873
N.B. 28	Upper Coverdale	Albert	45
N.B. 30	Calkins	Albert	227
N.B. 33	West Coverdale	Albert	260
N.B. 36	Boundary Creek	Westmorland	51
N.B. 37	Sackville	Westmorland	473
N.B. 40	Woodpoint	Westmorland	43
N.B. 41	Turtle Creek	Albert	125
N.B. 43	Creek's	Albert	93
N.B. 45	Chartersville	Westmorland	348
N.B. 46	Wilson	Westmorland	157
N.B. 47	Hillsboro	Albert	967
N.B. 50	Black River	Saint John	41
N.B. 51	Shepody River Dam	Albert	5552
N.B. 54	Jones Creek	Westmorland	51
N.B. 55	Missaguash	Westmorland	333
N.B. 56	Tantramar River Dam	Westmorland	17988
N.B. 57	Redbank	Westmorland	41
N.B. 58	Memramcook	Westmorland	215
N.B. 60	Petitcodiac River Survey	Westmorland and Albert	-
N.B. 62	St. Martins	Saint John	184
TOTAL			<u>36,936</u>

PRINCE EDWARD ISLAND

Project No.	Name of Marsh	County	Acreage Protected Marsh
P.E.I. 1	Johnston River	Queens	275

APPENDIX 11

EXPENDITURES UNDER THE MARITIME MARSHLAND REHABILITATION ACT

	<u>1949-63</u>	<u>1963-64</u>
Administration	592,681.27	81,212.32
Surveys and Engineering	1,994,768.71	70,681.95
Workshop and Construction Supervision	3,757,717.90	150,116.27
Construction and Maintenance of Projects and Special Surveys:		
<u>NOVA SCOTIA</u>		
Advocate	125,857.34	13,514.22
Allan River	50,508.46	778.25
Amherst Point	170,089.71	3,217.32
Annapolis Royal Town	27,624.41	-
Annapolis River Survey	27,049.60	-
Annapolis River Dam	1,598,832.44	7,443.38
Armstrong Marsh	19,124.68	831.28
Argyle	15,175.83	-
Athol	21,735.76	43.77
Avonport	112,403.54	816.89
Barronsfield	83,028.93	290.04
Bartlett's Beach	2,644.17	-
Belcher Street	120,984.05	2,138.51
Belmont	26,025.29	3,052.45
Bishop Beckwith	182,045.60	2,060.47
Brown Salt Pond	24,674.30	54.18
Burlington	46,562.50	486.35
Burntcoat	14,982.74	44.10
Castle Frederick	57,732.68	668.49
Central Onslow	49,271.71	70.20
Centre Burlington	37,198.77	736.78
Chambers	15,922.57	-
Chegoggin	32,845.12	-
Chignecto	46,921.78	76.20
Comeau	38,268.06	-
Converse	163,228.04	1,567.71
Dentiballis	108,799.47	904.00
Dugau	43,821.32	1,493.96
Elderkin	72,604.38	542.12
Falmouth Great Dyke	192,093.13	623.85
Falmouth Village	44,849.51	1,061.79
Farnham Dyke	34,686.07	196.31
Flemming	47,796.74	71.20
Fort Belcher	63,184.49	1,094.56
Fort Ellis	49,757.64	33.25
Fox Bow	20,242.73	-
Fort Lawrence-Amherst	85,440.03	18.20
Glenholme	64,967.28	723.80
Goose Bay	29,160.37	-
Grand Pre	602,569.66	16,838.52
Granville Centre	27,213.80	-
Greenhill	31,160.51	2,018.64
Green's Creek	33,493.07	1,294.31
Habitant	21,884.79	-
Herbert River	27,110.28	915.39

Construction and Maintenance of Projects
and Special Surveys (Continued):

NOVA SCOTIA

Highland Village	72,508.56	7,490.84
Horton	105,201.25	468.59
Isgonish	176,715.18	409.12
John Lusby	144,877.38	495.76
Kennetcook	51,083.42	323.03
Kentville	21,064.44	520.73
Lower Truro	62,874.52	338.22
Maccan	40,410.18	348.30
Mantua Poplar Grove	85,775.13	1,387.17
Martock	171,742.08	683.86
Masstown	205,380.77	1,114.71
McKay	17,165.94	-
Messenger	3,457.06	-
Mill	7,321.94	-
Minudie	147,286.37	1,824.48
Morse	4,616.95	-
Morse Bishop	3,173.26	-
Moschelle	28,719.68	-
Mount Anne	60,302.71	-
Nappan-Maccan	22,278.63	883.63
Nappan River Dam	177,101.92	13.50
New Minas	98,133.09	2,791.86
Newport Town	75,458.18	126.14
Noel Shore	190,358.73	1,042.93
Old Barns	54,587.68	427.95
Onslow North River	78,075.78	1,335.20
Pre Rond	9,014.96	-
Pereaux	21,397.61	908.15
Princeport	17,300.45	211.00
Queen Anne	174,543.65	5,203.32
Rhynds Creek	52,214.71	69.75
Ricketson	2,519.54	-
River Hebert	255,721.61	2,392.90
Rosette	2,977.37	-
Round	37,667.82	192.65
Ryerson	55,359.89	1,561.50
Saulnierville	8,729.55	-
Scotch Village	30,252.98	447.49
Seaman	45,195.33	172.80
Selmah	27,388.19	103.95
Shipley	4,609.00	-
Shubenacadie	24,140.58	-
Southside	27,121.08	511.75
Starr's Point	121,004.86	277.96
St. Croix	98,324.78	808.23
St. Mary's Bay	111,754.32	1,766.42
Stewiacke	40,150.73	242.00
Sunny Slope	10,834.20	336.05
Tregothic	55,585.72	454.46
Truro Dykeland Park	126,889.58	297.38
Tufts	22,027.14	127.20
Tupperville	18,608.25	-
Upper Belleisle	32,091.75	-
Upper Nappan	54,929.55	-
Upper Maccan	27,787.05	388.82
Victoria Diamond Jubilee	95,885.43	246.75
Walker	5,210.13	-
Wellington	101,675.24	2,469.92
Wentworth	18,381.49	1,595.32

Construction and Maintenance of Projects
and Special Surveys (Continued):

NOVA SCOTIA

Windermere	49,026.18	-
Windsor Forks	80,022.46	4,323.36
Woodworth	23,487.11	-
	<hr/>	<hr/>
Subtotal for Nova Scotia projects	8,704,074.49	112,855.64

NEW BRUNSWICK

Allison	29,025.67	187.40
Aulac	301,194.97	1,334.18
Baie Verte	923.03	-
Beaumont	73,295.76	1,058.52
Belliveau Village	25,821.53	100.10
Black River	16,249.73	108.43
Boundary Creek	4,516.04	78.87
Calkins	109,689.55	2,127.02
Chartersville	63,548.52	141.18
Cole's Island	52,094.47	-
College Bridge	127,161.32	2,003.76
Coverdale	19.31	-
Coyle Landry	49,916.06	257.02
Creeks	11,072.10	604.56
Dixon Island	81,354.28	874.30
Dock	18,107.11	61.46
Dorchester	293,877.87	1,669.51
Dover	16,055.64	268.00
Fox Creek	37,501.63	3,138.40
Gautreau Village	107,740.86	2,303.15
Great	6,828.22	-
Germantown	11,909.61	-
Hillsboro	163,821.50	5,614.66
Hopewell Hill	72,406.13	-
Jones	4,803.31	-
Jones Creek	7,838.55	7.24
Log Lake	52,004.10	-
Lower Coverdale	62,922.20	289.23
Memramcook	54,005.55	373.08
Memramcook West	189,344.25	9,114.77
Middle Coverdale	19,147.80	793.73
Missaguash	11,534.63	-
New Horton	96,716.48	1,128.60
Pre d'en Haut	43,982.51	2,674.53
Red Bank	5,060.41	-
Sackville	62,860.93	826.31
Shepody River Dam	1,572,844.76	2,387.47
Shepody River Survey	26,334.47	-
St. Martin's	41,549.16	1,768.63
Tantramar River Dam	770,404.53	2,956.65
Tantramar River Survey	23,201.48	-
Tantramar West	45,616.39	-
Taylor Village	103,995.21	202.85
Turtle Creek	27,101.46	-
Upper Coverdale	19,150.82	819.61
Upper Dyke	11,149.33	-
Westcock	166,293.17	3,036.52
West Coverdale	81,615.98	44.00
Wilson	29,117.32	96.84
Wood Point	2,617.95	-
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Subtotal for New Brunswick projects	5,205,343.66	48,450.58

Construction and Maintenance of Projects
and Special Surveys (Continued):

PRINCE EDWARD ISLAND

Johnston River	20,150.40	-
TOTAL EXPENDITURE FOR CONSTRUCTION AND MAINTENANCE OF PROJECTS AND SPECIAL SURVEYS	13,929,568.55	161,306.22
TOTAL EXPENDITURE FOR ADMINISTRATION, ENGINEERING AND SUPERVISION	6,345,167.88	302,010.54
TOTAL	<u>20,274,736.43</u>	<u>463,316.76</u>

SPECIAL PROJECTS - FINANCIAL SHARING OF CAPITAL EXPENDITURES TO MARCH 31, 1964

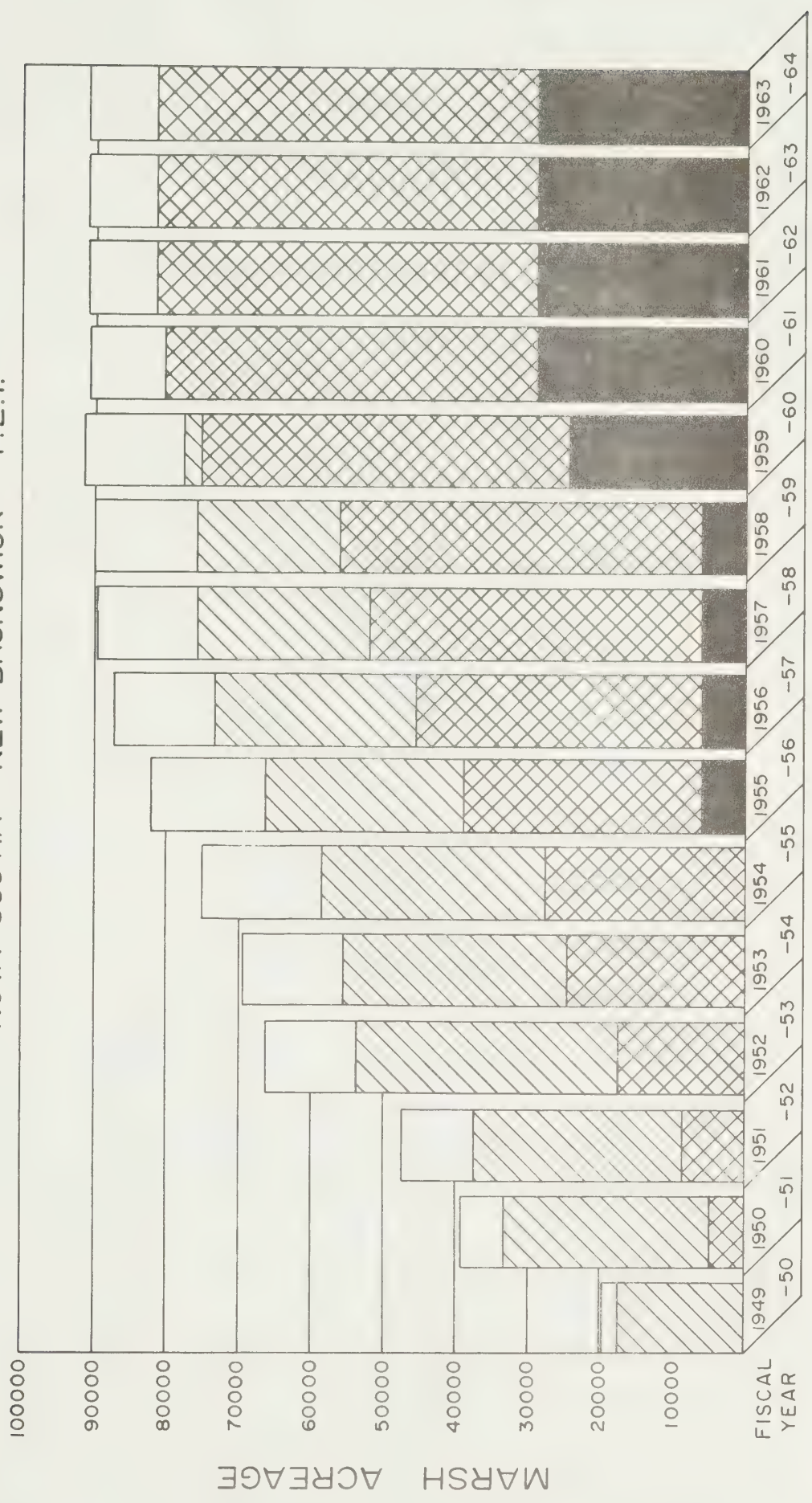
Project	Particular Project Structure Contributed Towards	Gross Expenditure on Project to Date	Contributing Agency	Amount Contri- buted to Date
<u>NOVA SCOTIA</u>				
Annapolis Royal Dam	Aboiteau & Highway Causeway	\$2,519,756.87	Province of N.S.	\$914,815.35
Isgonish River Dam	Aboiteau & Highway Causeway	223,869.72	Province of N.S.	103,566.52
Nappan River Dam	Aboiteau & Highway Causeway	193,147.89	Province of N.S.	23,536.43
Bishop Beckwith Marsh	Aboiteau & Sewer Outlet	192,448.04	Town of Wolfville	1,880.85
Burntcoat Marsh	Aboiteau & Highway Causeway	28,505.60	Province of N.S.	14,957.53
River Hebert Marsh	Sewer Outlet for School	263,023.76	Province of N.S.(entire cost)	338.45
Kentville Marsh	Crib Bank Protection	24,121.71	Town of Kentville	2,414.65
Scotch Village Marsh	Aboiteau & Highway Crossing	34,939.95	Province of N.S.	4,239.48
St. Mary's Bay Marsh	Aboiteau & Highway Crossing	128,354.49	Province of N.S.	9,543.63
Tufts Marsh	Aboiteau & Highway Crossing	26,364.74	Province of N.S.	2,234.75
TOTAL				\$1,077,527.65

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Project	Particular Project Structure Contributed Towards	Gross Expenditure on Project to Date	Contributing Agency	Amount Contri- buted to Date
<u>NEW BRUNSWICK</u>				
Tantramar River Dam	Aboiteau & Highway Causeway	906,994.93	Province of N.B.	200,948.06
College Bridge Marsh	Aboiteau & Highway Causeway	227,028.91	CNR and Prov. of N.B.	96,896.38
Coles Island Marsh	Aboiteau & Railroad Structure	86,002.47	CNR	36,229.22
Black River Marsh	Aboiteau & Highway Causeway	23,700.19	Province of N.B.	9,042.03
Taylor Village Marsh	Dyke Protecting Bridge Approach	110,128.32	Province of N.B.	5,930.26
Belliveau Village Marsh	Placing Rock on Highway	26,320.08	Province of N.B.(entire cost)	470.45
Sackville Marsh	Aboiteau & Highway Causeway	78,857.70	Province of N.B.	15,000.00
TOTAL				\$364,516.40

NOTE: Some of the payments from agencies participating in a project were not received in time to permit crediting to the particular project and there may therefore be variation between gross expenditures shown on this page and those derived from Appendix II.

DEPARTMENT of FORESTRY of CANADA - M.M.R.A. GRAPH SHOWING AREA INCORPORATED - AREA PROTECTED YEAR 1949-50 TO 1963-64 NOVA SCOTIA - NEW BRUNSWICK - P.E.I.



- ACREAGE INCORPORATED.
- ACREAGE PROTECTED BY ALL CLASSES OF PROTECTIVE WORKS INCLUDING MINIMUM MAINTENANCE OF EXISTING STRUCTURES.
- ACREAGE PROTECTED BY MAJOR TIDAL DAMS (SHEPODY, TANTRAMAR, NAPPAN, ANNAPOLIS RIVER DAM)
- ACREAGE PROTECTED BY STANDARD M.M.R.A. PROTECTIVE WORKS.

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